

Anomaly Visualization:

Develop visualizations that highlight potential anomalies in the credit card transactions. Use line charts, scatter plots, or heat maps to display transaction patterns and identify outliers. Also, explain why do you think the above mention charts are best to visualize the problem

❖ Which merchants have the highest number of transactions? (Only Top 10)

Used Visual: Stacked Bar Chart

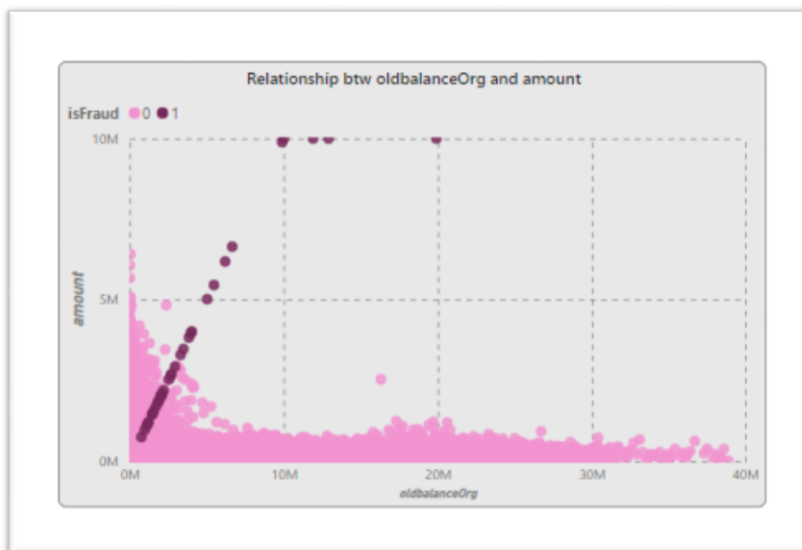
In this chart, used x-axis has count of transactions and y-axis has merchants, and filtered out top 10. Specifically used this bar chart, so that it will be good in dashboard as bar level changes according to the count of transactions.



❖ Create a scatter plot to visualize the relationship between 'oldbalanceOrg' and 'amount' columns.

Used Visual: Scatter Chart

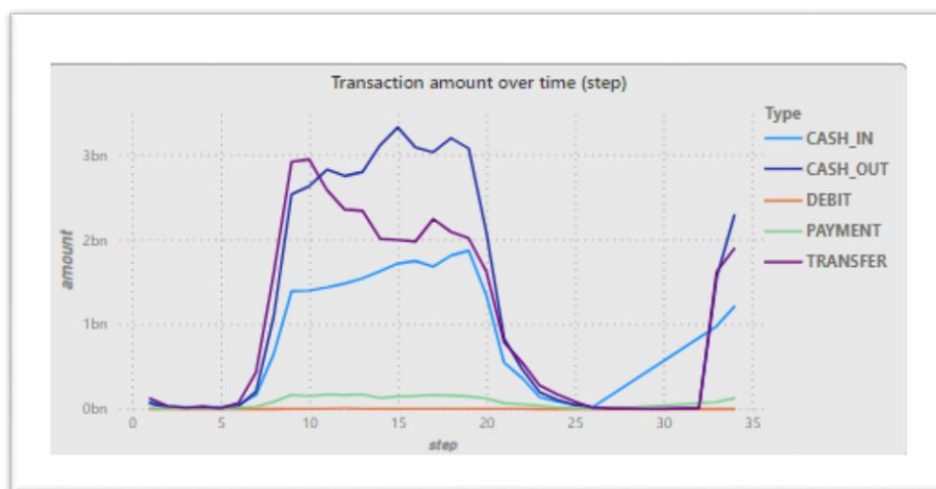
The chart illustrates the relationship between 'oldbalanceorg' on the x-axis and 'amount' on the y-axis, their numerical correlation and it serves as a tool for identifying any outliers within the data.



- ❖ **Use a line chart to plot the transaction amount over time (step) to identify any unusual spikes or drops in transaction amounts.**

Used Visual: Line Chart

This chart shows the transaction amount over time. Used legends has type, to see all types of drops clearly.



- ❖ **Are there any merchants with a high occurrence of fraudulent transactions?**

Used Visual: Table

Used columns merchant name and count of amount, with the filter for counting only fraud transactions and further filtered top values from that.

nameDest	Count of amount
C185805228	2
C200064275	2
C410033330	2